SERIES 3 TC350

LED MONITOR

(MFM)

user manual

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/register

Model _____ Serial No. _____

SAMSUNG

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearances. Product design and specifications may be changed without notice.

Still image warning

Avoid displaying still images (like jpeg picture files) or still image element (like panorama or 4:3 image format, stock or news bar at screen bottom etc.) on the screen. Constant displaying of still picture can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Always try do display any image on full screen, use LED display picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all LED display features designed to reduce image retention and screen burnout, refer to e-Manual for details.

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Check the Symbol!

Note

Indicates additional information.

Step by Step Guide

Check here for instructions on how to open the relevant submenu within the OSD (on screen display).

Getting Started

Safety Precautions

Icons used for safety precautions

WARNING	Failing to follow the precautions marked with this sign may result in a serious injury or even a fatality.
CAUTION	Failing to follow the precautions marked with this sign may result in a personal injury or property damage.

Do not perform.

Must be followed.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

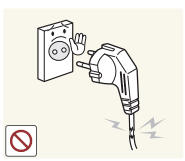
This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Power Related

✎ The following images are for your reference and may differ depending on models and countries.

Warning

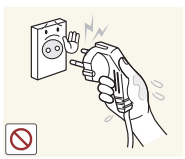


Avoid using a damaged power cord or plug or a loose power outlet.

- Otherwise, it may result in electric shock or fire.

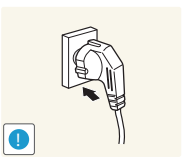
Avoid connecting multiple electric appliances to a single wall outlet.

- Otherwise, it may result in fire due to overheating of the wall outlet.



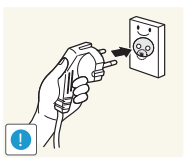
Avoid plugging in or unplugging the power supply with wet hands.

- Otherwise, it may result in electric shock.



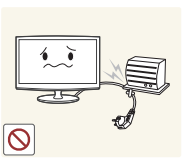
Plug the power plug in firmly.

- Otherwise, it may result in fire.



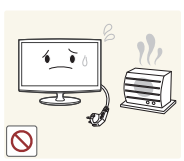
Make sure to connect the power cord to a grounded wall outlet (for insulation class 1 equipment only).

- Otherwise, it may result in electric shock or injury.



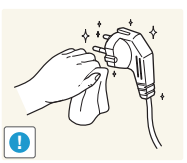
Avoid bending or twisting the power cord excessively and avoid placing heavy objects on the cord.

- Otherwise, it may result in electric shock or fire due to a damaged power cord.



Keep the power cord and the product away from a heater.

- Otherwise, it may result in electric shock or fire.

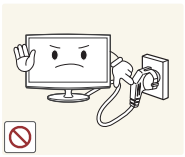


If the pins of the power plug or the wall outlet are covered in dust, clean it using a dry cloth.

- Otherwise, it may result in fire.

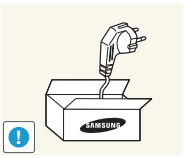
Getting Started

Caution



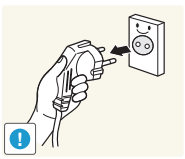
Avoid unplugging the power plug while the product is operating.

- Otherwise, it may damage the product due to electric shock.



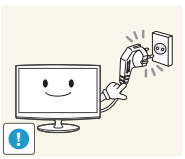
Make sure to use only the power cord supplied by our company. In addition, do not use the power cord of another electric appliance.

- Otherwise, it may result in electric shock or fire.



When unplugging the power plug from the wall outlet, make sure to hold it by the plug and not by the cord.

- Otherwise, it may result in electric shock or fire.



Connect the power plug to a wall outlet that can be easily reached.

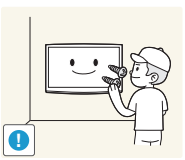
- When a problem occurs with the product, you must unplug the power plug to cut the power off completely. You cannot cut the power off completely using only the power button on the product.

Installation Related

Warning

Avoid placing burning candles, mosquito coil, cigarettes on the product.

- Otherwise, it may result in fire.

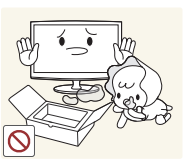


Ask an installation engineer or relevant company to install the product onto the wall.

- Otherwise, it may result in injury.
- Make sure to use the specified wall mount.

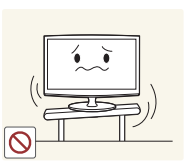
Avoid installing the product in a badly-ventilated location such as inside a bookshelf or closet.

- Otherwise, it may result in fire due to internal over-heating.



Keep the plastic bags used to pack the product away from children.

- If children place the plastic bags over their heads, they may suffocate.



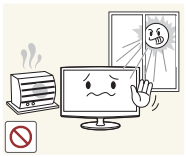
Avoid installing the product in a location that is unstable or exposed to excessive vibration such as on an unstable or slanted shelf.

- The product may fall and this may result in damage to the product or injury.
- If you use the product in a location exposed to excessive vibrations, it may result in a problem with the product or fire.

Avoid installing the product in a location exposed to dust, moisture (sauna), oil, smoke or water (rain drops) and installing it within a vehicle.

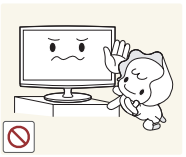
- This may result in electric shock or fire.

Getting Started



Avoid installing the product in a location exposed to direct sunlight and installing the product near a heat source such as a fireplace or heater.

- This may shorten the product life cycle or cause fire.



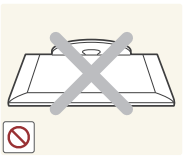
Avoid installing the product where children may reach it.

- If a child touches the product, the product may fall and this may result in injury.
- Since the front part is heavier, install the product on a flat and stable surface.

Caution

Do not let the product drop while moving it.

- This may result in a problem with the product or injury.



Do not place the product face down on the floor.

- This may damage the panel of the product.

When installing the product on a console or shelf, make sure that the front of the product does not protrude out of the console or shelf.

- Otherwise, this may cause the product to fall off and result in a malfunction or injury.
- Make sure to use a cabinet or shelf suitable to the size of the product.

When putting the product down, handle it gently.

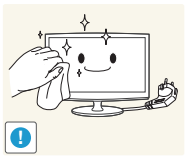
- Otherwise, it may result in a problem with the product or injury.

If the product is installed in a location where the operating conditions vary considerably, a serious quality problem may occur due to the surrounding environment. In this case, install the product only after consulting one of our service engineers about the matter.

- Places exposed to microscopic dust, chemicals, too high or low temperature, high humidity, airports or stations where the product is continuously used.

Cleaning Related

Warning



Before cleaning the product, unplug the power cord.

- Otherwise, it may result in electric shock or fire.

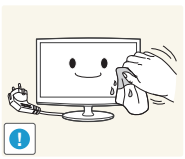
When cleaning the product, do not spray water directly over the product parts.

- Make sure that water does not enter the product.
- Otherwise, it may result in fire, electric shock or a problem with the product.

Caution

Avoid spraying cleansing agent directly onto the product.

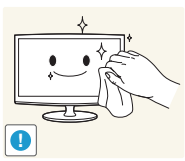
- This may result in discolouration or cracking of the exterior of the product or the panel coming off.



When cleaning the product, disconnect the power cord and clean the product with the supplied cleaning cloth.

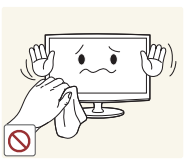
- Avoid using chemicals such as wax, benzene, alcohol, thinner, mosquito coil, fragrance, lubrication or cleansing agent when cleaning the product.

  This may result in the exterior being deformed or the print being removed.



If you can't get the product clean with just the supplied cloth, use a soft, damp cloth with a "monitor-exclusive cleansing agent" and wipe the product with it.

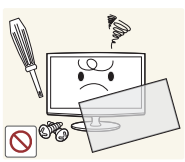
- If no monitor-exclusive cleansing agent is available, dilute a cleansing agent with water at a ratio of 1:10 before cleaning the product.



Since the exterior of the product is easily scratched, be sure to use the supplied cleansing cloth.

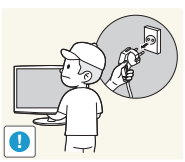
Usage Related

Warning



Since a high voltage runs through the product, never disassemble, repair or modify the product yourself.

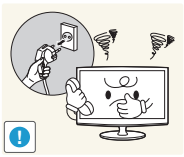
- Otherwise, it may result in fire or electric shock.
- If the product needs to be fixed, contact a service centre.



To move the product, turn the power off and unplug the power cord, the aerial cable and any other wires connected to the product.

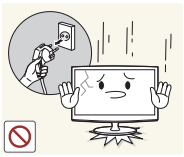
- Otherwise, it may result in electric shock or fire due to the damaged power cord.

Getting Started



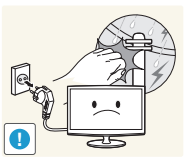
If the product generates a strange noise, a burning smell, or smoke, unplug the power plug immediately and contact a service centre.

- Otherwise, it may result in electric shock or fire.



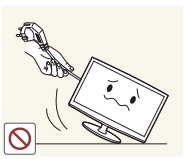
If you drop the product or the case is damaged, turn the power off and unplug the power cord. Contact a service centre.

- Otherwise, it may result in fire or electric shock.



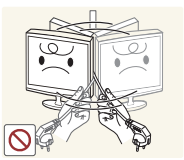
When thunder or lighting occurs, unplug the power cord and under no circumstance touch the aerial cable as this is dangerous.

- Otherwise, it may result in electric shock or fire.



Avoid moving the product by pulling the power cord or aerial cable.

- Otherwise, it may result in electric shock, fire or a problem with the product due to damage to the cable.

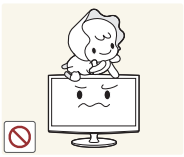


Avoid lifting up or moving the product by holding only the power cord or signal cable.

- Otherwise, it may result in electric shock, fire or a problem with the product due to damage to the cable.

Take care not to block the vent by a table cloth or curtain.

- Otherwise, it may result in fire due to internal overheating.



Avoid letting children hang or climb onto the product.

- Otherwise, it may result in the product falling and this may result in injury or death.

Avoid placing objects such as toys and cookies on top of the product.

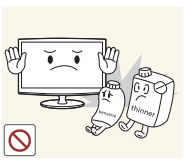
- If a child hangs over the product to grab an object, the object or the product may fall and this may result in injury or even death.

Avoid dropping an object over the product or cause impact to the product.

- Otherwise, it may result in electric shock or fire.

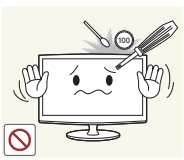
When a gas leak occurs, do not touch the product or the power plug and ventilate immediately.

- A spark may result in an explosion or fire.
- During a thunder or lighting storm, do not touch the power cord or aerial cable.



Avoid using or placing inflammable spray or objects near the product.

- This may result in an explosion or fire.



Avoid inserting metal objects such as a chopsticks, coins or hairpins, or inflammable objects into the product (the vents, ports, etc).

- If water or substances enters the product, turn the power off, unplug the power cord and contact a service centre.
- Otherwise, it may result in a problem with the product, electric shock or fire.

Getting Started

Avoid placing a liquid container such as a vase, flowerpot, beverage, cosmetics or drugs, or a metal object over the product.

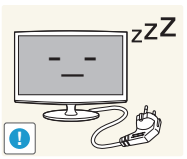
- If water or substances enter the product, turn the power off, unplug the power cord and contact a service centre.
- Otherwise, it may result in a problem with the product, electric shock or fire.

Do not press down hard on the product. The product may become deformed or damaged.

⚠ Caution

Displaying a still image for a long time may create a persistent image or stain on the screen.

- If you do not use the product for a long time, use the power-saving mode or set the screensaver to the moving picture mode.

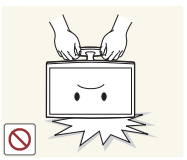


When not using the product for a long time such as leaving your home, unplug the power cord from the wall outlet.

- Otherwise, it may cause dust accumulation and result in fire caused by overheating or short circuit or result in an electric shock.

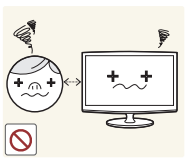
Set the appropriate resolution and frequency for the product.

- Otherwise, it may result in eye strain.



Avoid turning the product upside down or move the product holding only the stand.

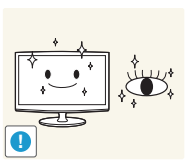
- This may cause the product to fall, resulting in damage to the product or injury.



Watching the product from too close a distance continuously may damage your eyesight.

Avoid using a humidifier or cooker near the product.

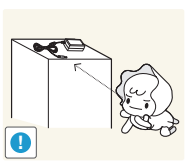
- Otherwise, it may result in electric shock or fire.



It is important to give your eyes some rest (5 minutes every hour) when viewing the product screen for long periods of time.

- This will alleviate any eye strain.

Since the display panel is hot after using it for a long time, do not touch the product.



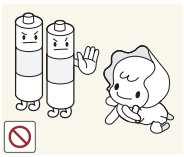
Keep the small accessories in a location out of the reach of children.

Take care when adjusting the angle of the product or the height of the stand.

- If your hand or finger is caught, you may be injured.
- If the product is tilted excessively, the product may fall and this may result in injury.

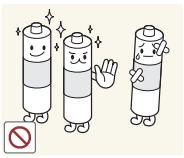
Avoid placing a heavy object over the product.

- Otherwise, it may result in a problem with the product or injury.



Be careful that children do not place the batteries in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.

- If children have had the battery in their mouths, consult your doctor immediately.

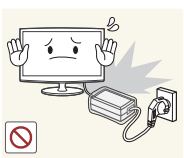


Use only specified standard batteries. Do not use new and used batteries together.

- This may cause a battery to break or leak and may cause fire, injury, or contamination (damage).

Do not place the adapter on top of another adapter.

- Otherwise, it may result in fire.



Remove the vinyl cover of the adapter before using the adaptor.

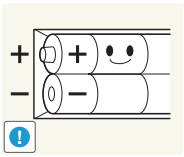
- Otherwise, it may result in fire.

Be careful that adaptor should not be in contact with water and therefore not be wet.

- This may cause a malfunction, electric shock or fire. Do not use adaptor by the waterside or outside particularly when it rains or snows. Be careful that adaptor should not be wet while cleaning floor with water.

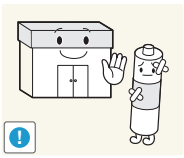
When using headphones or earphones, do not turn the volume too high.

- Having the sound too loud may damage your hearing.



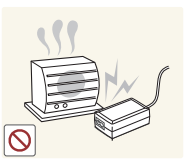
When replacing the batteries, insert them with right polarity (+, -).

- Otherwise, the battery may become damaged or it may cause fire, personal injury or damage due to leakage of the internal liquid.



The batteries (and rechargeable batteries) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning the used or rechargeable batteries for recycling.

- The customer can return used or rechargeable batteries to a nearby public recycling centre or to a store selling the same type of the battery or rechargeable battery.

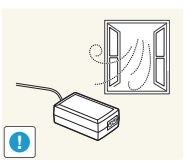


Keep power adaptor away from any other heat source.

- Otherwise, it may result in fire.

Do not let water enter the DC power device or get the device wet.

- An electric shock or fire may result.
- Avoid using the product outdoors where it can be exposed to rain or snow.
- Be careful not to get the DC power adapter wet when you wash the floor.



Always keep power adaptor in well-ventilated area.

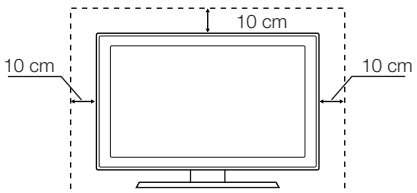
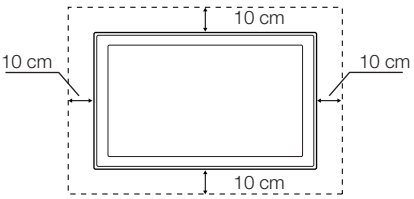
Getting Started

Providing Proper Ventilation for Your Product

When you install your product, maintain a distance of at least 10 cm between the product and other objects (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to maintain proper ventilation may result in a fire or a problem with the product caused by an increase in its internal temperature.

✎ Whether you install your product using a stand or a wall-mount, we strongly recommend you use parts provided by Samsung Electronics only.

- If you use parts provided by another manufacturer, it may cause difficulties with the product or result in injury caused by the product falling.

Installation with a stand.	Installation with a wall-mount.
	

Other Warnings

✎ The actual appearance of the product may differ from the images in this manual, depending on the model.

✎ Be careful when you touch the product. Some parts can be somewhat hot.

Getting Started

Accessories and Cables

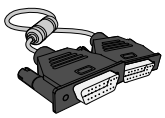
✎ Please make sure the following items are included with your product. If any items are missing, contact your dealer.

✎ The items' colours and shapes may vary depending on the model.

✎ Make sure that there are no accessories hidden behind or under packing materials after you open the box.

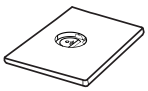
⚠ [CAUTION] INSERT SECURELY LEST SHOULD BE DETACHED IN SET

- Remote Control & Batteries (AAA x 2)
- Power Cord
- Quick Setup Guide
- S/W Driver CD

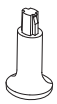


D-Sub Cable

Adapter



Stand Base



Stand Connector

Input Cables (Sold Separately)

You will need one or more of these cables to connect your product to your cable outlet and your peripheral devices (Blu-ray players, DVD players, etc.)

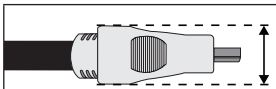
Component

Composite (AV)

HDMI-DVI

Stereo Cable

For the best cable connections to this product, use cables no thicker than the cable illustrated below:

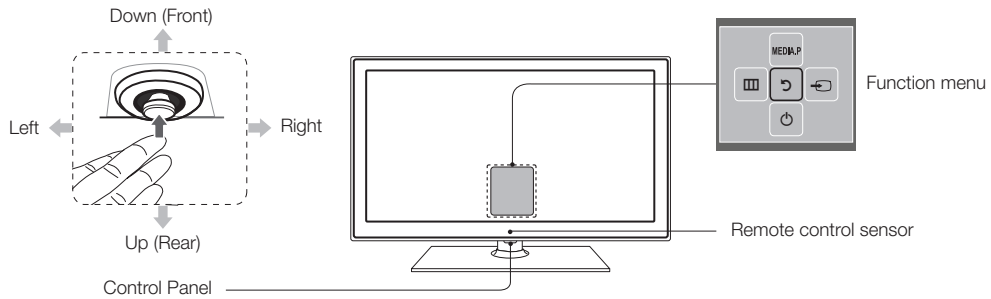


- Maximum thickness - 0.55 inches (14mm)

Getting Started

Using the Control Panel

✎ The product colour and shape may vary depending on the model.



Power on	Turn the LED display on by pressing the Controller when the LED display is in standby mode.
Adjusting the volume	Adjusts the volume by moving the controller from side to side when the power is on.
Using the function menu	To view and use the Function menu, press and release the Controller when the power is on. To close the Function menu, press and release the Controller again.
Selecting the MENU	With the Function menu visible, select the MENU by moving the Controller to the left. The OSD (On Screen Display) Menu appears. Select an option by moving the Controller to the right. Move the Controller to the right or left, or backwards and forwards to make additional selections. To change a parameter, select it, and then press the Controller.
Selecting the MEDIA.P	With the Function menu visible, select MEDIA.P by moving the Controller backwards. The MEDIA.P main screen appears. Select an application by moving the Controller, and then pressing the Controller.
Selecting the SOURCE	With the Function menu visible, open the SOURCE by pushing the Controller to the right. The **Source** screen appears. To select a source, move the Controller back and forth. When the source you want is highlighted, press the Controller.
Power off (⏻)	With the Function menu visible, select **Power off** (⏻) by pulling the Controller forwards, and then press the Controller.

✎ To close the **Menu**, **MEDIA.P** or **Source**, press the Controller for more than 1 second.

✎ When selecting the function by moving the controller to the forwards/backwards/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the forwards/backwards/left/right directions.

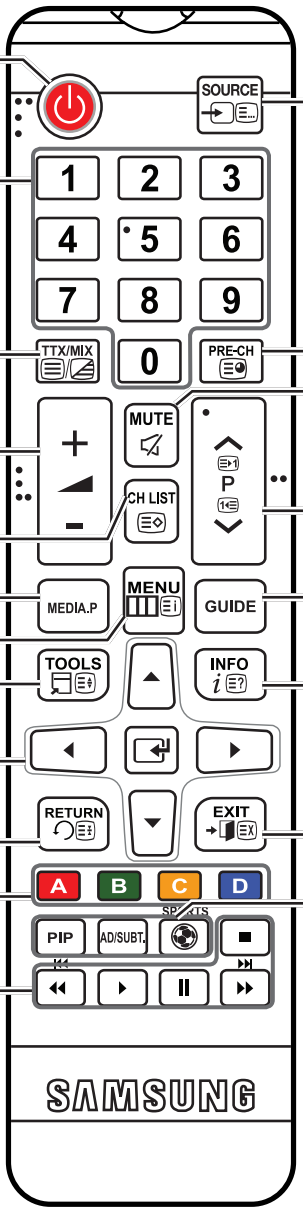
Standby mode

Your product enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your product in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

Getting Started

The Standard Remote Control Buttons

✎ This remote control has Braille points on the Power, Number, and Volume buttons and can be used by visually impaired persons.



Turn the product on and off.

Number buttons.

Alternately select Teletext ON, Double, Mix or OFF. (Not available in some countries)

Adjust the volume.

Not available.

View the Media Play.

Open the OSD (Menu).

Quickly select frequently used functions. Use this button in a specific feature.

Move the cursor, select the on-screen menu items, and change the values seen on the LED display menu.

Return to the previous menu.

Use these buttons according to the directions on LED display screen.

Use these buttons in a specific feature.

Display and selects the available video sources.

Not available.

Cut off the sound temporarily.

Not available.

Not available.

Display information on the product screen.

Exit the menu.

PIP: You can use PIP function.

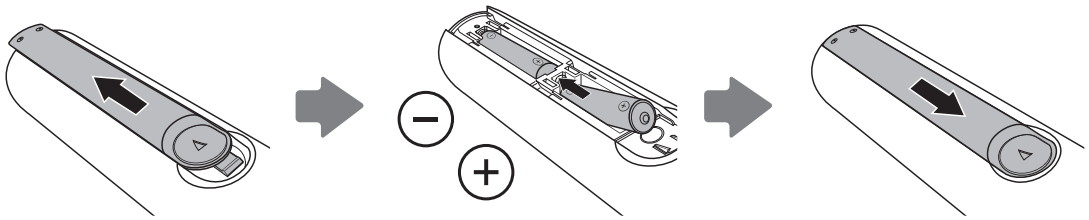
AD/SUBT.: Turn the audio description on and off. This is not available in some locations. / Displays digital subtitles.

SPORTS: Enable Sport Mode for the optimal sports viewing experience.

Getting Started

Installing batteries (Battery size: AAA)

Match the polarity of the batteries to the symbols in the battery compartment.



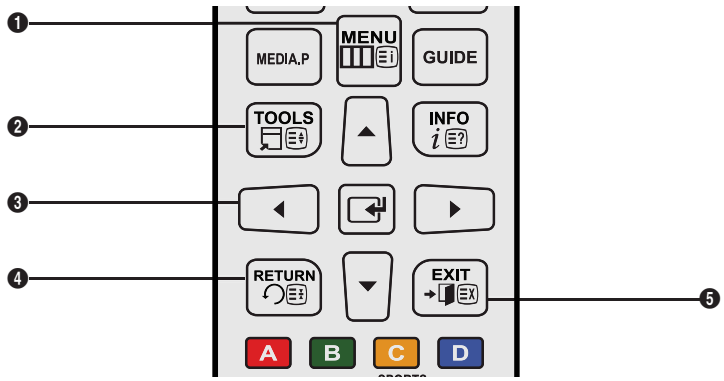
✎ NOTE

- Install the batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
- Use the remote control within 23 feet of the product.
- Bright light may affect the performance of the remote control. Avoid using it near fluorescent lights or neon signs.
- The colour and shape of the remote may vary depending on the model.

Getting Started

How to Navigate Menus

Your product's Main and Tools menus contains functions that let you control the product's features. For example, in the Main menu you can change the size and configuration of the picture, its brightness, its contrast and so on. There are also functions that let you control the product's sound, energy use, and a host of other features. To access the main, on-screen menu, press the MENU button on your remote. To access Tools menus, press the TOOLS button. Tools menus are available when the TOOLS menu Icon is displayed on the screen.



1. MENU button: Displays the main on-screen menu.
2. TOOLS button: Displays the Tools menus when available.
3. and Direction buttons: Use the Direction buttons to move the cursor and highlight an item. Use the button to select an item or confirm the setting.
4. RETURN button: Returns to the previous menu.
5. EXIT button: Exits the on-screen menu.

How to Operate the Main Menu (OSD - On Screen Display)

The access steps may differ depending on the menu option you select.

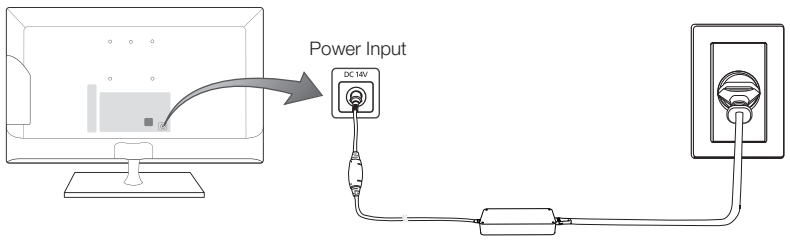
1	MENU	The main menu options appear on the screen: Picture, Sound, Applications, System, Support.
2	▲ / ▼	Select a main menu option on the left side of the screen with the ▲ or ▼ button.
3		Press to access the sub-menus.
4	▲ / ▼	Select the desired sub-menu with the ▲ or ▼ button.
5	▲ / ▼ / ◀ / ▶	Adjust the value of an item with the ◀, ▶, ▲, or ▼ button. The adjustment in the OSD may differ depending on the selected menu.
6		Press to confirm the selection.
7	EXIT	Press EXIT.

Getting Started

Connecting the Power Cord

Connecting the Power

✎ The picture may vary depending on the model.



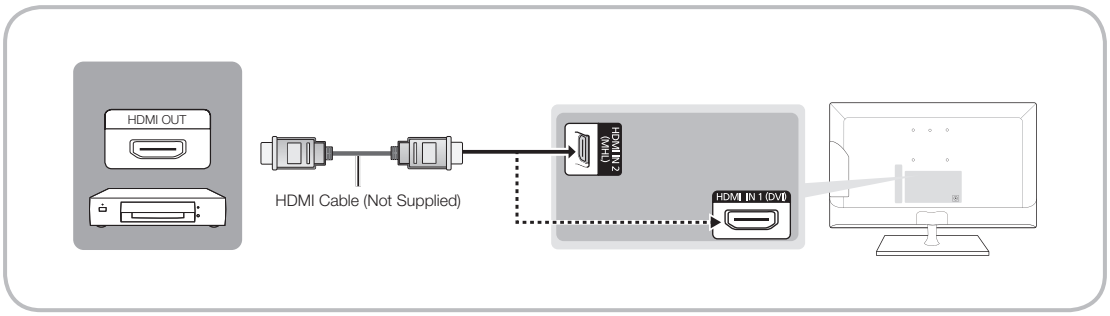
Connections

Connecting to AV Devices (Blu-ray Players, DVD Players, etc.)

Using an HDMI Cable for an HD connection (up to 1080p, HD digital signals)

For the best quality HD picture, we recommend using an HDMI connection.

Use with DVD players, Blu-ray players, HD cable boxes, and HD Set-Top-Box satellite receivers.



✎ **HDMI IN 1 (DVI) / HDMI IN 2**

- For the best picture and audio quality, connect digital devices to the product using HDMI cables.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
  - To connect the product to a digital device that does not support HDMI output, use an HDMI to DVI cable and audio cables.
- If you connect an external device to the product that uses an older version of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- We recommend using a basic high-speed HDMI cable or an HDMI cable that is Ethernet compatible. Note that this product does not support the Ethernet function via HDMI.

Connections

Sharing Mobile Device Screens On the Displayer

This displayer is capable of displaying mobile device screens. You can use the following features to enjoy video, photo, and music files from mobile devices directly on your displayer.

Use an MHL cable to display a mobile device's screen on the displayer.

- MHL

  This displayer supports MHL (Mobile High-definition Link) via an MHL cable. Connect an MHL cable to the mobile device and the displayer. However, MHL is only available through the HDMI2 (MHL) port and only when used in conjunction with an MHL-enabled mobile device. This feature is only available with MHL-certified mobile devices. To find out if your mobile device is certified, visit its manufacturer's website. You can also view a list of MHL-certified devices on the official MHL website (http://www.mhlconsortium.org).

- MHL USE

  Connect an MHL cable to the mobile device and the displayer. Press SOURCE button and then select the MHL connector to display the mobile device's screen on the displayer. The following remote control functions will also be available:

- ◀◀ (REW), ▶▶ (FF), ▶ (Play), ❚❚ (Pause), ■ (Stop), (Previous menu)

- Restrictions

  MHL has several requirements:

  – If you are using an HDMI adapter, the displayer recognizes the signal as an HDMI signal and may respond differently than it would to an MHL-to-HDMI cable connection.

  – Upgrade the software to the latest version.

  – This product is officially MHL-certified. If users encounter any problem when using the MHL function, they must contact the manufacturer of the device.

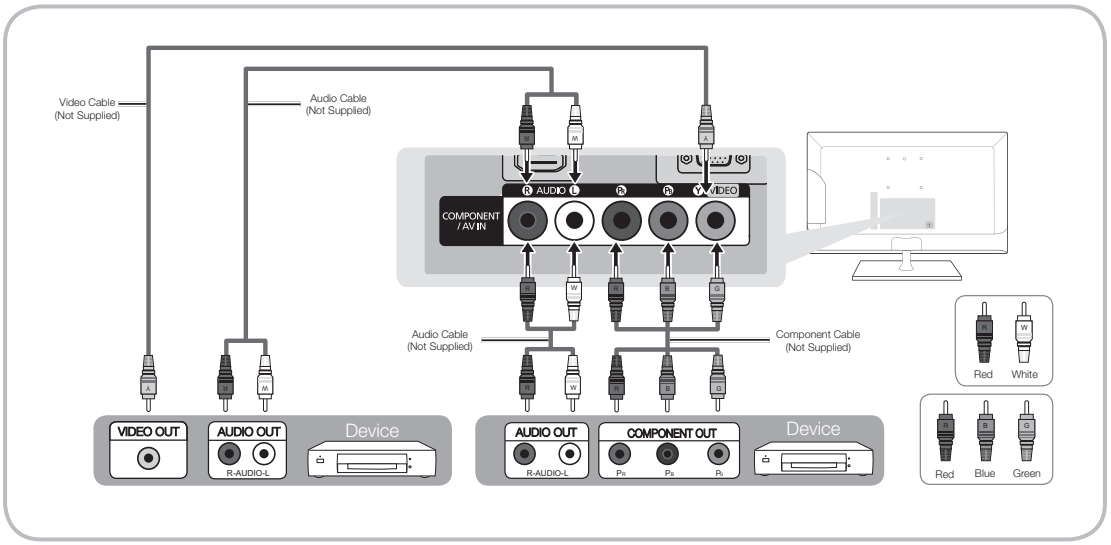
  – Some mobile devices may not have sufficient specifications or features to support MHL.

  – Because the displayer screen is wider than most mobile device screens, the picture quality may appear lower on the displayer.

Connections

Using a Component Cable (up to 1080p HD signals) or an Audio/Video Cable (480i analogue signals only)

Use with DVD players, Blu-ray players, cable boxes, STB satellite receivers, VCRs.



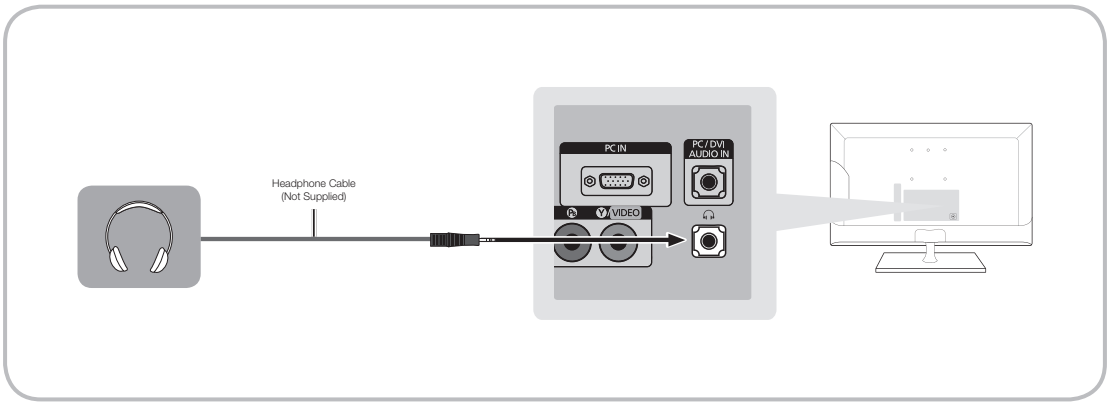
✎ For better picture quality, we recommend the Component connection over the A/V connection.

✎ When you connect a Video cable to **COMPONENT / AV IN**, the colour of the **COMPONENT / AV IN [VIDEO]** jack (green) will not match the video cable (yellow).

Connections

Connecting to Audio Devices

Using a Headphone Cable Connection



✎ **Headphones** 🎧: You can connect your headphones to the headphone output jack on your product. While the headphones are connected, the sound from the built-in speakers will be disabled.

- The sound function may be restricted when you connect headphones to the product.
- Headphone volume and product volume are adjusted separately.
- The earphone jack supports only the 3 conductor tip-ring-sleeve (TRS) type.

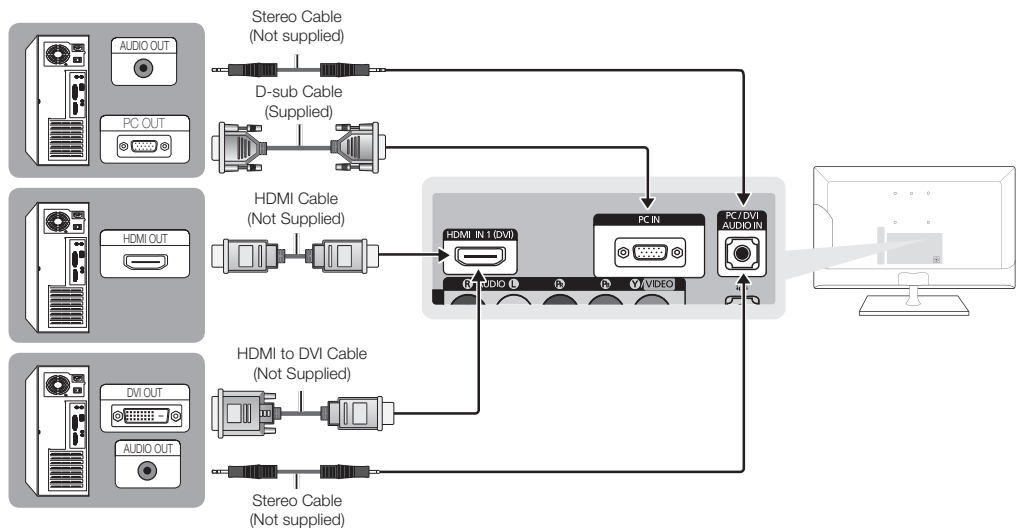
Connections

Connecting to a PC

Using an HDMI Cable or an HDMI to DVI Cable or a D-sub Cable Connection

✎ Your PC may not support an HDMI connection.

✎ Use your PC speakers for audio.



✎ **NOTE**

- For an HDMI to DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.
- For PC's with DVI video out jacks, use an HDMI to DVI cable to connect the DVI out on the PC to the **HDMI IN 1 (DVI)** jack on the product. Use the PC's speakers for audio.

Connections

Display Modes (D-Sub and HDMI/DVI Input)

The optimal PC display resolution for this product is 1920 x 1080 @ 60 Hz. We very strongly recommend you set the video output of your computer to the optimal resolution. You can also select one of the standard resolutions listed in the table below and the product will be automatically adjust to the resolution you choose. If you set your computer's video output to a resolution not listed in the table, the product screen may go blank and only the power indicator will turn on. To resolve this issue, adjust the resolution according to the following table, referring to the user guide for the graphics card.

- Optimal resolution: 1920 x 1080 pixels

Display Mode			Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H / V)
Mode	Resolution					
IBM	720 x 400	70Hz	31.469	70.087	28.322	-/+
VESA DMT	640 x 480	60Hz	31.469	59.940	25.175	-/¬
MAC	640 x 480	67Hz	35.000	66.667	30.240	-/¬
VESA DMT	640 x 480	72Hz	37.861	72.809	31.500	-/¬
VESA DMT	640 x 480	75Hz	37.500	75.000	31.500	-/¬
VESA DMT	800 x 600	60Hz	37.879	60.317	40.000	+/+
VESA DMT	800 x 600	72Hz	48.077	72.188	50.000	+/+
VESA DMT	800 x 600	75Hz	46.875	75.000	49.500	+/+
MAC	832 x 624	75Hz	49.726	74.551	57.284	-/¬
VESA DMT	1024 x 768	60Hz	48.363	60.004	65.000	-/¬
VESA DMT	1024 x 768	70Hz	56.476	70.069	75.000	-/¬
VESA DMT	1024 x 768	75Hz	60.023	75.029	78.750	+/+
VESA DMT	1152 x 864	75Hz	67.500	75.000	108.000	+/+
MAC	1152 x 870	75Hz	68.681	75.062	100.000	-/¬
VESA DMT	1280 x 720	60Hz	45.000	60.000	74.250	+/+
VESA DMT	1280 x 800	60Hz	49.702	59.810	83.500	-/+
VESA DMT	1280 x 1024	60Hz	63.981	60.020	108.000	+/+
VESA DMT	1280 x 1024	75Hz	79.976	75.025	135.000	+/+
VESA DMT	1366 x 768	60Hz	47.712	59.790	85.500	+/+
VESA DMT	1440 x 900	60Hz	55.935	59.887	106.500	-/+
VESA DMT	1600 x 900RB	60Hz	60.000	60.000	108.000	+/+
VESA DMT	1680 x 1050	60Hz	65.290	59.954	146.250	-/+
VESA DMT	1920 x 1080	60Hz	67.500	60.000	148.500	+/+

✎ For an HDMI to DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.

✎ The interlace mode is not supported.

✎ The set may operate abnormally if you select a non-standard video format.

✎ Separate and Composite modes are supported. SOG(Sync On Green) is not supported.

✎ DPM(Display Power Management) Function does not work if you used in connection with the HDMI port of this product.

✎ If an HDMI to DVI cable is connected to the **HDMI IN 1 (DVI)** port, the audio does not work.

Changing the Input Source

Source

When you are watching product and you want to watch a movie on your DVD player or Blu-ray player or switch to your cable box or STB satellite receiver, you need to change the Source.

PC / HDMI1/DVI / HDMI2 / AV / Component

1. Press the SOURCE button on your remote. The Source screen appears.
2. Select a desired external input source.

   ✎ You can only choose external devices that are connected to the product. In the displayed Source list, connected inputs are highlighted.

   ✎ In the Source, PC always stays activated.

How to Use Edit Name

Edit Name lets you associate a device name to an input source. To access Edit Name, open the Tools menu when the Source list is displayed. The following selections appear under Edit Name:

VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA: Select an input jack, and then select the name of the device connected to that jack from the list that appears.

✎ If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI cable, assign PC to HDMI1/DVI in Edit Name.

✎ If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign DVI PC to HDMI1/DVI in Edit Name.

✎ If you connect an AV device to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign DVI Devices to HDMI1/DVI in Edit Name.

Information

You can see detailed information about the selected external device.

Refresh

If the external devices are not displayed in the Source list, open the Tools menu, and then select Refresh, and then search for the connected devices.

Basic Features

Correct posture to use the product

Use the product in the correct posture as follows.

- Straighten your back.
- Allow a distance of 45 to 50cm between your eye and the screen, and look slightly downward at the screen. Keep your eyes directly in front of the screen.
- Adjust the angle so light does not reflect on the screen.
- Keep your forearms perpendicular to your upper arms and level with the back of your hands.
- Keep your elbows at about a right angle.
- Adjust the height of the product so you can keep your knees bent at 90 degrees or more, your heels attached to the floor, and your arms lower than your heart.

Picture Mode

Menu → Picture → Picture Mode

Picture modes apply preset adjustments to the picture.

- Dynamic

  Suitable for a bright room.

- Standard

  Suitable for a normal environment.

- Movie

  Suitable for watching movies in a dark room.

- Entertain

  Sharpens the picture. Suitable for games.

  ✎ It is only available when connecting a PC.

Samsung MagicAngle

Menu → Picture → Samsung MagicAngle

MagicAngle lets you view optimal screen quality from almost any viewing position. By setting an appropriate value for each position, you can view a high quality picture, whether you are viewing the screen from an angle below and above the product.

✎ This option is only available on the TC350 model.

- Samsung MagicAngle

  Select Lean Back Mode if viewing below the screen and Standing Mode if viewing above.

- Mode

  Determines the amount of adjustment. Numbers closer to 10 are best for lower viewing positions.

Adjusting Picture Settings

Backlight

Menu → Picture → Backlight

Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.

Contrast

Menu → Picture → Contrast

Increases or decreases the contrast between dark and light areas of the picture.

Brightness

Menu → Picture → Brightness

Adjusts the brightness of the screen. Not as effective as Backlight.

Sharpness

Menu → Picture → Sharpness

Sharpens or dulls the edges of objects.

Colour

Menu → Picture → Colour

Adjust colour saturation levels.

Tint (G/R)

Menu → Picture → Tint (G/R)

Adjust tint levels for green and red.

To adjust picture quality, follow these steps:

1. Select an option you want to adjust. When you select an option, a slider screen appears.
2. Adjust the option value using your remote.

✎ When you make change to option value, the OSD will be adjusted accordingly.

✎ You can adjust and store Settings for each external device connected to the product.

✎ Lowering picture brightness reduces power consumption.

Response Time (Normal / Faster / Fastest)

Accelerate the panel response rate to make video appear more vivid and nature.

Picture Size

Menu → Picture → Picture Size

Using this function, you can make change to various picture size and aspect ratio options.

- Picture Size

  If you have a cable box or satellite receiver, it may have its own set of screen sizes as well. However, we highly recommend you use your products 16:9 mode most of the time.

  Auto Wide: Automatically adjusts the picture size to the 16:9 aspect ratio.

  16:9: Sets the picture to the 16:9 wide screen format.

  Wide Zoom: Magnifies the picture size more than 4:3.

  ✎ Adjusts the Position by using ▲ / ▼ buttons.

  Zoom : Magnifies the 16:9 wide pictures vertically to fit the screen size.

  ✎ Adjusts the Zoom or Position by using ▲ / ▼ button.

  4:3: Sets the picture to basic (4:3) mode.

  ✎ Do not set your product to 4:3 format for a long time. The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.

  Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

  ✎ Adjusts the Position by using ▲ / ▼ / ◀ / ▶ button.

  NOTE

  - Depending on the input source, the picture size options may vary.
  - The available items may differ depending on the selected mode.
  - When connecting a PC, only 16:9 and 4:3 modes can be adjusted.
  - Settings can be adjusted and stored for each external device connected to an input on the LED display.
  - If you use the Screen Fit function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

  Zoom/Position:You can adjust picture size and position by ▲ / ▼ / ◀ / ▶ button.

  ✎ It's only available when picture size is set as Zoom, Wide Zoom, and Screen Fit.

  ✎ In Wide Zoom mode, you can only use Position adjustment.

  ✎ Reset: Reset the Zoom and Position to the default settings.

To use the Position function after selecting Wide Zoom, Zoom or Screen Fit, follow these steps:

1. Select the Position.
2. On the Position screen, select Position, and then move the picture to position you want using your remote.
3. When done, select Position again, and then select Close.
4. To reset the picture position, select Reset.

Picture Sizes available by Input Source:

- AV: Auto Wide, 16:9, Wide Zoom, Zoom, 4:3
- Component (480i/p, 576i/p, 720p): 16:9, Wide Zoom, Zoom, 4:3
- Component (1080i, 1080p): 16:9, Wide Zoom, Zoom, 4:3, Screen Fit
- HDMI (480i/p, 576i/p): 16:9, Wide Zoom, Zoom, 4:3
- HDMI (720p, 1080i, 1080p): 16:9, Wide Zoom, Zoom, 4:3, Screen Fit

✎ Depending on the input source, the picture size options may vary.

✎ The available items may differ depending on the selected mode.

✎ HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)

✎ You can adjust and store settings for each external device you have connected to an input on the product.

Auto Adjustment

Menu → Picture → Auto Adjustment

Automatically adjusts the picture's frequency, position, and fine tune settings in the PC mode.

✎ Available only when you connect your PC to the product with a D-Sub cable.

PC Screen Adjustment

Menu → Picture → PC Screen Adjustment

✎ Available in PC mode only.

- Coarse / Fine: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, use the Coarse function to adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned with the centre of screen.
- Position: Adjust the PC's screen position using your remote if it is not centre or does not fit the product screen.
- Image Reset: Resets the image to the default settings.

Using Your Product as a Computer (PC) Display

Entering the Video Settings (Based on Windows 7, 8)

For your product to work properly as a computer display, you must enter the correct video settings.

✎ Depending on your version of Windows and your video card, the procedure on your PC will probably differ slightly from the procedure presented here.

✎ However, the same basic information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Click “Control Panel” on the Windows start menu.
2. Click “Appearance and Themes” in the “Control Panel” window. A display dialog box appears.
3. Click “Display”. Another display dialog box appears.
4. Click the “Settings” tab on the display dialog box.
   - On the Settings tab, set the correct resolution (screen size). The optimal resolution for this product is 1920 x 1080.
   - If a vertical-frequency option exists on your display settings dialog box, select “60” or “60 Hz”. Otherwise, just click “OK” and exit the dialog box.

Picture In Picture (PIP)

PIP

Menu → Picture → PIP

View two sources on the LED display at the same time.

- PIP

  Activate or deactivate the PIP function.

- Source

  Changes the source.

- Size

  The sub-picture size can be set by three modes.

  – **minimum**

  – **medium**

  – **maximum** (a quarter of screen size)

- Position

  Select a position for the sub-picture screen.

- Sound Select

  You can choose to listen to the sound from the main picture or the sub picture.

  ✎ If you turn the product off while watching in the PIP mode, the PIP function is reset to Off. When you turn your product on, you must turn PIP on again to watch in the PIP mode.

  ✎ You may notice that the picture in the PIP screen becomes slightly unnatural when you use the main screen to view a game or karaoke.

  ✎ PIP Settings

  – Main picture: PC, AV, Component, HDMI1/DVI, HDMI2

  – Sub picture: PC, AV, Component, HDMI1/DVI, HDMI2

		main screen				
		AV	Component	PC	HDMI1/DVI	HDMI2
sub picture	AV	x	x	o	o	o
	Component	x	x	x	o	o
	PC	o	x	x	o	o
	HDMI1/DVI	o	o	o	x	x
	HDMI2	o	o	o	x	x

✎ O: Available / X: Not Available

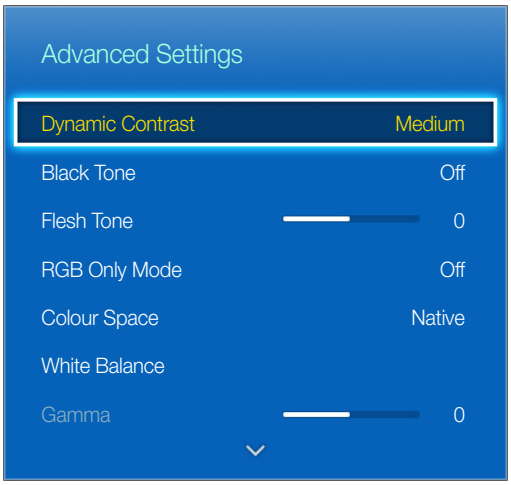
Advanced Settings

Menu → Picture → Advanced Settings

Using this function, you can configure advanced picture settings to create your preferred picture.

✎ Available when the Picture Mode is set to Standard or Movie.

✎ When connecting a PC, you can make changes to the White Balance or Gamma.



- Dynamic Contrast (Off / Low / Medium / High): Adjust the screen contrast.
- Black Tone (Off / Dark / Darker / Darkest): Select the black level to adjust the screen depth.
- Flesh Tone: Emphasize pink “Flesh Tone.”
- RGB Only Mode (Off / Red / Green / Blue): Displays the Red, Green and Blue colour for making fine adjustments to the hue and saturation.
- Colour Space (Auto / Native): Adjust the range of colours available to create the image.
- White Balance: Adjust the colour temperature for a more natural picture.

  R-Offset / G-Offset / B-Offset: Adjust each colour’s (red, green, blue) darkness.

  R-Gain / G-Gain / B-Gain: Adjust each colour’s (red, green, blue) brightness.

  Reset: Resets the White Balance to it’s default settings.
- Gamma: Adjust the primary colour intensity.
- Motion Lighting (Off / On): Reduce power consumption by brightness control.

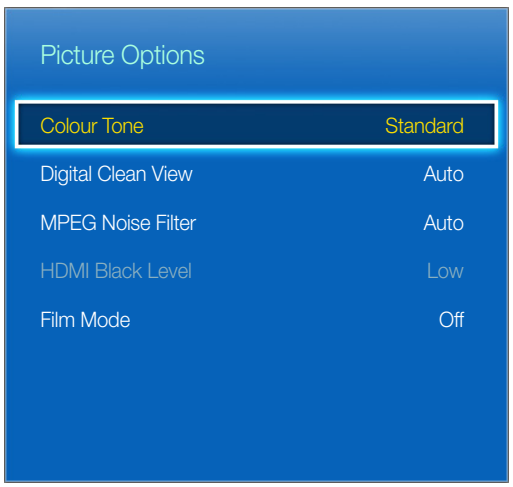
Basic Features

Picture Options

Menu → Picture → Picture Options

Using this function, you can configure additional picture settings to suit your preference.

✎ When connecting a PC, you can only make changes to Colour Tone.



- Colour Tone (Cool / Standard / Warm1 / Warm2)

  ✎ Warm1 or Warm2 will be deactivated when the picture mode is Dynamic.

  ✎ Settings can be adjusted and stored for each external device connected to an input on the LED display.

- Digital Clean View (Off / Low / Medium / High / Auto): Reduces picture noise to avoid distracting lines and flickering.
- MPEG Noise Filter (Off / Low / Medium / High / Auto): Reduces MPEG noise to provide improved picture quality.
- HDMI Black Level (Low / Normal): Selects the black level on the screen to adjust the screen depth.

  ✎ Available only in HDMI mode (RGB signals).

- Film Mode (Off / Auto1 / Auto2): Sets the LED display to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

  ✎ Available in HDMI (1080i).

  ✎ If the screen does not seem natural, change its option to Off / Auto1 / Auto2 in Film Mode.

Picture Off

Menu → Picture → Picture Off

Turns off the screen and plays audio only. To turn the screen back on, press any button (except Power and Volume buttons) on your remote.

Reset Picture

Menu → Picture → Reset Picture

Resets your current picture mode to its default settings.

Changing the Preset Sound Mode

Sound Mode

Menu → Sound → Sound Mode

Sound modes apply preset adjustments to the sound.

- Standard

  Selects the normal sound mode.

- Music

  Emphasizes music over voices.

- Movie

  Provides the best sound for movies.

- Clear Voice

  Emphasizes voices over other sounds.

- Amplify

  Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

Adjusting Sound Settings

Sound Effect

Menu → Sound → Sound Effect

✎ Available only when the Sound Mode is set to Standard.

- DTS TruSurround

  Produces sound that will make you feel like you are sitting in a movie theatre or concert hall.

- DTS TruDialog

  Increases the voice intensity to make dialog clearer.

- Equaliser

  The Equaliser displays a series of sliders. Use the arrow buttons to select a slider, and change the slider's value. To Reset the Equaliser, select the Reset. A pop-up appears asking if you want to reset, select Yes; otherwise select No. To exit, select Close.

  Balance L/R: Adjusts the balance between the right and left speaker.

  100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth frequencies.

  Reset: Resets the equalizer to its default settings.

Speaker Settings

Menu → Sound → Speaker Settings

This function can configure speaker setting for your Device.

- Auto Volume

  Equalize the volume levels.

  ✎ To use the volume control of a connected source device, set Auto Volume to Off. A change to the volume control of the connected source device may not be applied if Auto Volume is set to Normal or Night.

Reset Sound

Menu → Sound → Reset Sound

Reset all sound settings to the factory defaults.

Preference Features

Setting the Time

Time

Menu → System → Time

✎ The time you set will appear when you press the INFO*i* button.

- Clock Set

  Set the clock to use the various timer features of the product.

  Clock Set: Set the Date and Time manually. You can set the current date and time using your remote.

  ✎ If you disconnect the power cord, you have to set the clock again.

- Sleep Timer

  Automatically shuts off the product after a preset period of time. (30, 60, 90, 120, 150, or 180 minutes).

  ✎ Select a period of time using your remote. To cancel the Sleep Timer, select Off.

Preference Features

- On Timer

  Set On Timer so that your product turns on automatically at a time and on a day of your choosing. You can set up three separate On Timer configurations. (On Timer 1, On Timer 2, On Timer 3) and select the source of the content the product plays when it turns on: a USB device, or a set-top box connected to one of the product's inputs (HDMI1, AV, etc.).

  ✎ You must set the clock before you can use the On Timer function.

  Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can choose the days you want On Timer to turn on your product.

  ✎ The ✓ mark indicates days you've selected.

  Time: Set the time that the product turns on automatically.

  Volume: Set the desired volume level. Change the volume level using your remote.

  Source: To select what will be turned on when the timer setting is activated. You can set the product to turn on play back contents such as Photos,Videos or Music files located in an external device connected to the product.

  ✎ The USB device must be connected to your product before you can select USB.

  Music / Photo (when the Source is set to USB): Select a folder in the USB device containing music or photo files you want played when the product turns on automatically.

  ✎ If there is no music file on the USB device or you don't select a folder containing a music file, the Timer function does not operate correctly.

  ✎ If there is only one photo file in the USB, the slide show will not play.

  ✎ If a folder name is too long, the folder cannot be selected.

  ✎ Each USB you use is assigned its own folder. When using more than one of the same types of USB, make sure the folders assigned to each USB have different names.

  ✎ We recommend that you use a USB memory stick and a multi card reader when using the On Timer. The On Timer function may not work with USB devices that have a built-in battery, MP3 players, or PMPs made by some manufacturers because the product can take too long to recognize these devices.

  ✎ If you set the On Timer to play a file saved on a USB HDD, it may take up to 40 seconds or more to play the file after the product is turned on.

- Off Timer

  Set Off Timer so that your product turns off automatically at a time and on a day of your choosing. You can set up three separate Off Timer configurations. (Off Timer 1, Off Timer 2, Off Timer 3)

  ✎ You must set the clock before you can use the Off Timer.

  Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can choose the days you want Off Timer to turn off your product.

  ✎ The ✓ mark indicates days you've selected.

  Time: Set the time that the product turns off automatically.

Preference Features

Economical Solutions

Eco Solution

Menu → System → Eco Solution

- Energy Saving

  Lets you adjusts the brightness of the product in order to reduce power consumption.

- Auto Power Off

  The product will automatically turn off if you don't press a button on your remote or product controller within 4 hours to prevent overheating.

Auto Protection Time

Menu → System → Auto Protection Time

If the screen displays a still image for a certain period of time you define, the product activates the screen saver to prevent the formation of burnt in ghost images on the screen.

Blocking Programmes

Change PIN

Menu → System → Change PIN

The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in the Enter New PIN. Reenter the same 4 digits in the Confirm New PIN. When the Confirm screen disappears, select Close. The product has memorised your new PIN.

✎ The default PIN code is:0-0-0-0.

Preference Features

Other Features

Menu Language

Menu → System → Menu Language

Set the menu language.

General

Menu → System → General

- Max. Power Saving

  When the product is attached to a PC, conserves power by turning the product off when the PC is not used for period of time you specify.

  ✎ Available only when the Source is set to PC.

- Game Mode

  When you have connected a game console such as a PlayStation™ or Xbox™ to the product, you can enjoy a more realistic gaming experience if you set the Game Mode on.

  Precautions and limitations for Game Mode

  – Before disconnecting a game console and connecting another external device, set Game Mode to Off.

  – If you display the product menu in Game Mode, the screen shakes slightly.

  ✎ Game Mode is not available when the input source is set to PC source.

  ✎ Set Game Mode to On only after connecting a game console. If you turn Game Mode on before you have attached the game console, you may notice reduced picture quality.

  ✎ If the Game Mode is set to On, Picture Mode is set to Standard and Sound Mode is set to Movie automatically.

- Panel Lock

  Lock or unlock all the keys on the product Controller at once. When Panel Lock is on, the product Controller does not operate.

- Boot Logo

  Displays the Samsung logo when the product is turned on.

Preference Features

Anynet+ (HDMI-CEC)

Menu → System → Anynet+ (HDMI-CEC)

Allows you to control all connected Samsung devices that support anynet+ with your Samsung product's remote. For details on set up options, refer to the "Anynet+ (HDMI-CEC)" instructions.

DivX® Video On Demand

Menu → System → DivX® Video On Demand

Shows the registration code authorized for the product. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed.

✎ For more information on DivX(R) VOD, visit http://vod.divx.com.

Self Diagnosis

Menu → Support → Self Diagnosis

- Picture Test

  Use to check for picture problems. Picture Test displays a high definition picture that you can examine for flaws or faults.

  Yes: Select Yes if the test picture does not appear or there is noise or distortion in the test picture. There may be a problem with the product. Contact Samsung's Call Centre for assistance.

  No: Select No if the test picture displays properly. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Sound Test

  Use the built-in melody to check for sound problems.

  Yes: Select Yes if you can hear sound from only one speaker or from neither speaker during the sound test. There may be a problem with the product. Contact Samsung's Call Centre for assistance.

  No: Select No if you can hear sound from the speakers. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Reset

  Reset all setting to factory defaults except for your network settings.

  To reset your product to default setting, follow these steps:

  1. Go to the Reset menu. (Support → Self Diagnosis → Reset)
  2. The PIN input screen appears. Enter the four digit security PIN using your remote.
  3. When done, the PIN screen disappear automatically. The message "All the settings will return to factory defaults." appears.

Preference Features

Software Update

Menu → Support → Software Update

The Software Update menu lets you upgrade your product's software to the latest version.

Current Version: This is the software version already installed in the product.

Upgrading to the Latest Version

Check your LED display software version and upgrade it if necessary.

✎ The LED display will turn off and on automatically after completing the software upgrade. All video and audio settings return to the default settings after a software upgrade.

- Update now

  Download the latest update file from the Samsung website. Decompress the file and copy it into the root directory of a flash drive. Insert the flash drive into the USB port to install the update.

Use Mode

Menu → Support → Use Mode

Select the Use Mode suitable for your place. We strongly recommend you select Home Use.

- Home Use: Home Use is the default setting.
- Store Demo: Store Demo is for retail environments only. If you select Store Demo, some functions will not work, and the picture settings will be reset every 30 minutes.

Contact Samsung

Menu → Support → Contact Samsung

View this information when your product does not work properly or when you want to upgrade the software. You can find information regarding our call centres and how to download products and software.

Application

Application Menu

MENU → Applications

Source List

MENU → Applications → Source List

✎ When you press the SOURCE button, Source screen will be displayed at once.

✎ You can only choose external devices that are connected to the LED Display. In Source, connected inputs are highlighted.

✎ For the detailed information, refer to “Changing the Input Source” in User Manual.

Connecting a USB Device

1. Turn on your LED display.
2. Connect a USB device containing photo, music and movie files to the USB port on the side of the LED display.
3. When USB is connected to the LED display, popup window appears. You can select the Photos, Videos or Music directly.

   ✎ It might not work properly with unlicensed multimedia files.

   ✎ Need-to-Know List before using Media Contents.

- MTP (Media Transfer Protocol) is not supported.
- The file system supports NTFS (Read Only), FAT16 and FAT32.
- Certain types of USB Digital camera and audio devices may not be compatible with this LED display.
- Media Contents only supports sequential jpeg format.
- Media Contents only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers (USB HUB are not supported). Devices should be connected directly to the LED display USB port.
- Before connecting your device to the LED display, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- The HDD (Hard Disk Drive) connected to USB is not supported.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 x 8640 pixels.
- For unsupported or corrupted files, the “Not Supported File Format” message is displayed.
- The scene search and thumbnail functions are not supported in the Videos.
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If the LED display has been no input during time set in Auto Protection Time, the screen saver will run.

- The power-saving mode of some external hard disk drives may be released automatically when connected to the LED display.
- If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
- If a USB device connected to the LED display is not recognized, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- If a file deleted from the PC is still found when Media Contents is run, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.

Disconnecting a USB Device

1. Press the SOURCE button.
2. Select a desired USB device, and then press the TOOLS button. The Tools menu appears.
3. Select Disconnect USB Device, and then wait until the selected USB device is disconnected. You can remove a USB device from the LED display.

   ✎ To remove a USB device from the LED display, we recommend use Disconnect USB Device function.

Media Play

MENU → Applications → Media Play

Enjoy photos, music and movie files saved on a USB Mass Storage Class (MSC) device.

1. Press the MEDIA.P button.
2. Press ◀/▶ button to select desired menu, then press the ↵ button.
3. Press ◀/▶ button to select desired device, then press the ↵ button again.
4. Press the ▲/▼/◀/▶ button to select the desired file in the list, then press the ↵ button or ► (Play) button.

Playing the selected files

1. Press the ▲ button to select Options at the top of each main screen and select Play Selected.
2. Select the desired files.

   ✎ The check box appears to the left of the selected files.

   ✎ Press ↵ button again to deselect the file.
3. Press the ▲ button to select Play.

   ✎ You can select or deselect all files pressing the Select All / Deselect All.

Video Playback

MEDIA.P → Videos

You can play video files saved on USB device and/or your PC.

✎ For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and Media Play file formats" in the Other Information section.

Video Playback

Select the video file from the list or press ► to play video. Use the remote control or the on-screen buttons to control the video playback. Press ⧉ or TOOLS to bring up the on-screen buttons and RETURN to hide them. To stop playing the file, press ■ or RETURN.

Playlist Creation

From the Options list located at the top of the screen, select Play Selected, specify all the video files you wish to play, and then select Play. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Opening a Different File

- Select the ⏮/⏭ on-screen button.
- Select the Search on-screen button and then select Search Titles.

Video Scanning

- Press ◀ / ▶. This scans through the file in 10-second increments.
- Press ◀◀ / ▶▶. This changes the playback speed by up to 300%. To restore normal playback speed, press ►. Alternatively, pause the video and then press ▶▶ to reduce the playback speed (1/8 normal, 1/4 normal, 1/2 normal). Slow playback doesn't support audio and is available in the forward direction only.
- Press ❚❚ to pause the screen and then ❚❚ to scan through the paused video in 1-frame increments. Audio is not supported while the video is paused.
- Select the Search on-screen button and then select Search Titles. This will take you to a scene in the video.
- Select the Search on-screen button and then select Search Time Bar. This will take you to a time frame in the video.
- Select the ⏮ on-screen button. This plays the video from the beginning.

Show Subtitles

If the external storage device contains a subtitle file with the same name as the video file being played, you can choose to display subtitles on the screen. Select the Settings on-screen button and then select Subtitle Settings to show subtitles.

If the letters appear corrupted, try changing the encoding setting. If the subtitles do not match the video, adjust the sync. If the subtitles are too small, increase the font size.

Advanced Features

Additional Video Playback Settings

- Repeat

  Select the Repeat Mode on-screen button. This changes the repeat mode. Repeat One repeats the current file only, whereas Repeat All repeats all files contained in the folder.

- Picture Size

  Select the Picture Size button and then select the picture size.

- Picture Mode

  Select the Settings on-screen button and then select Picture Mode. Select a picture mode.

- Sound Mode

  Select the Settings on-screen button and then select Sound Mode. Select a sound mode.

- Information

  Select the Settings on-screen button and then select Information to view detailed information about the current video.

Photo Playback

MEDIA.P → Photos

Select a photo from the list to display it on the screen. Press ↵ or TOOLS to bring up the on-screen buttons and RETURN to hide them. To stop playing the file, press ■ or RETURN.

Slideshow

- From the Options list located at the top of the screen, select Slide Show. You can view all photos in the list as a slideshow.
- Press ► from the list.
- Press ► or select the Start Slide Show on-screen button to begin the slideshow.

Slideshow Settings

- Slide Show Speed: Press ◄◄ / ►► or select the Slide Show Settings on-screen button and then select Speed.
- Slide Show Effect: Select the Slide Show Settings on-screen button and then select Effects.

Playlist Creation

From the Options list located at the top of the screen, select Play Selected, specify all the photos you want to play, and then select Play. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Opening a Different File

- Press ◄ / ►.
- Select the Previous/Next on-screen button.

Background Music

Enable music to play in the background during a slideshow. However, all music files must be located on the same storage device.

Select the Background Music on-screen button while a photo is displayed on the screen or a slideshow is in progress. Select the music files you want to listen to and then Play. To play the files in a random order, select Shuffle.

Advanced Features

Mini Player

When viewing photos with background music, you can control the music. Select Background Music from among the on-screen control buttons and select Mini Player. You can pause playback or skip to the previous or next song.

Additional Photo Playback Settings

- Zoom: Select the Zoom on-screen button. Zoom in by up to a factor of 4.
- Rotate: Select the Rotate on-screen button. This rotates the photo.
- Picture Mode: Select the Settings on-screen button and then select Picture Mode. Select a picture mode.
- Sound Mode: Select the Settings on-screen button and then select Sound Mode. Select a sound mode.
- Information: Select the Settings on-screen button and then select Information to view detailed information about the current video.

Music playback

MEDIA.P → Music

Select the music file from the list or press ► to play music. Use the remote control or the on-screen buttons to control the video playback. To stop playing the file, press ■ or RETURN↩.

Playlist Creation

From the Options list located at the top of the screen, select Play Selected, specify all the music files you want to play, and then select Play. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Music Scanning

- Press ◄◄ / ►►. This scans through the file in 10-second increments.
- Press ❚❚. This pauses the currently playing music file.

Opening a Different File

- Select the ⏮/⏭ on-screen button.
- Select a file from the playlist.

Additional Music Playback Settings

- Shuffle

  Select the On on-screen button. Choose between normal and random play.

- Repeat

  Select the Repeat on-screen button. This changes the repeat mode. One Song repeats the current file only, whereas All repeats all files contained in the playlist.

- Sound Mode

  Select the Sound Mode on-screen button. Select a sound mode.

- Information

  Press INFOi from the playlist to view detailed information for the selected file.

Sports Mode TOOLS

MENU → Applications → Sports Mode

Enable Sports Mode for the optimal sports viewing experience. However, enabling Sports Mode disables the Picture, Sound menu options. Disabling Sports Mode restores the previous Picture and Sound settings.

Advanced Features

Anynet+ (HDMI-CEC)

Menu → System → Anynet+ (HDMI-CEC)

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung LED display remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

- ✎ You can only control Anynet+ devices using the LED display remote control, not the buttons on the product.
- ✎ The product remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- ✎ The Anynet+ functions do not operate with other manufacturers' products.
- ✎ For instructions explaining how to connect Anynet+ external devices, refer to the device's user manual. You must connect an Anynet+ device using an HDMI cable. Some HDMI cables may not support Anynet+ functions.
- ✎ Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- ✎ Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Advanced Features

Anynet+ (HDMI-CEC) Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the product.

✎ Depending on the device, this menu may not be available.

- View PC

  Change from Anynet+ mode to product PC mode.

- (device_name) Menu

  Shows the menu of the connected device. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.

- (device_name) Tools

  Shows the Tools menu of the connected device. E.g. if a DVD player is connected, the Tools menu of the DVD player will appear.

- (device_name) Title Menu

  Shows the title menu of the disc in the connected device. E.g. If a DVD player is connected, the title menu of the movie in the DVD player will appear.

  ✎ Depending on the device, this menu may not be available.

Setting up Anynet+ (HDMI-CEC)

- Anynet+ (HDMI-CEC)

  To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On.

  ✎ When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated

- Auto Turn Off

  Set an Anynet+ Device to turn off automatically when the product is turned off.

  ✎ If Auto Turn Off is set to Yes, running external devices will turn off at the same time as the product powers off.

  ✎ May not be enabled depending on the device.

Switching between Anynet+ Devices

1. Open the Tools menu using your remote, and then select Anynet+ (HDMI-CEC).
2. Select a device, and then wait until the switch to the selected device is completed.

   ✎ The menu appears only when you set Anynet+ (HDMI-CEC) to On in the System menu.

   ✎ Switching to the selected device may take up to 2 minutes. You cannot cancel the switching operation while switching is in progress.

   ✎ If you have selected an Anynet+ device using the Source function , you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device.

Other Information

Troubleshooting

If the product seems to have a problem, first review this list of possible problems and solution. If none of the troubleshooting tips apply, visit www.samsung.com

Issues	Solutions and Explanations
Flickering and Dimming	If your Samsung LED Displayer is flickering or dimming sporadically, you may need to disable some of its energy efficient features such as the Energy Saving feature. Follow the steps below with your remote to turn these features off or on. • Energy Saving: Menu → System → Eco Solution → Energy Saving
Component Connections / Screen Colour	If you find that the colour on your Samsung LED Displayer's screen is not correct or black and white, first run a Self Diagnosis on the product to make sure there are no device issues. • Self Diagnosis: Menu → Support → Self Diagnosis → Picture Test If the problem does not appear in the Picture test, make sure: • Your connections are all consistent. For example, if you've used the AV In jack on your product, make sure you have used the AV Out jack on your video source. • You have connected to your devices to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Pg, to connect your product and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the product, the red Pr jack on the source to the red Pr jack on the product.
Screen Brightness	If you find that the colours on your Samsung product are correct but just a little too dark or bright, try adjusting the following settings in the Picture option in the Main menu: • Backlight, Contrast, Brightness, Sharpness, Colour, Tint (G/R) and so on. Go in to "Picture" on user Menu then try adjusting options mentioned above.
Unwanted Powering Off	If your Samsung product appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature. First make sure Sleep Timer is not accidentally set. The Sleep Timer turns off the product automatically after a certain period of time has passed. • Sleep Timer: Menu → System → Time → Sleep Timer If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. • No Signal Power Off: Menu → System → Eco Solution → No Signal Power Off • Auto Power Off: Menu → System → Eco Solution → Auto Power Off

Other Information

Issues	Solutions and Explanations
Trouble Powering On	Before you turn the product on, find the white light in the bottom of the intermediate position product. Press the power on button on the product or remote and the light should blink about 5 times before the product turns on. If you find that you are having trouble powering on your Samsung LED Displayer, there are a number of things to check before making a call to the service department. • If you happen to be using the product as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your product on. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your product may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your satellite box, press the guide or info button on the satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.

Other Information

Issues	Solutions and Explanations
PC Connection	
A Mode Not Supported message appears.	Set your PC's output resolution so it matches a resolution supported by the product.
"PC" is always shown on the source list, even if a PC is not connected.	This is normal. "PC" is always shown in the source list, regardless of whether a PC is connected.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC.
Picture	First, perform the Picture Test and to see if your product is properly displaying the test image (go to Menu → Support → Self Diagnosis → Picture Test). If the test image is properly displayed, the poor picture may be caused by the source or signal.
The picture is distorted: macro block error, small block, dots, pixelization	The compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies. A weak or bad quality signal can cause picture distortion. This is not a product issue.
Colour is wrong or missing.	If you're using a Component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.
The colour is poor or the picture is not bright enough.	Adjust the Picture options in the product menu (go to Picture Mode / Colour / Brightness / Sharpness) Adjust the Energy Saving option in the product menu (go to Menu → System → Eco Solution → Energy Saving) Try resetting the picture to view the default picture settings (go to Menu → Picture → Reset Picture).

Other Information

Issues	Solutions and Explanations
There is a dotted line on the edge of the screen.	If the Picture Size is set to Screen Fit, change it to 16:9. Change the cable/satellite box resolution.
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component on the product
Sound	First, perform the Sound Test to determine if your product audio is operating properly. (Go to Menu → Support → Self Diagnosis → Sound Test). If the audio is OK, the sound problem may caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc.) connected to your product.
The picture is good but there is no sound.	If you are using an external device, check the device's audio output option. (Ex. You may need to change your cable box's audio option to HDMI if you have the box connected to your product using an HDMI cable.) If you are using a DVI to HDMI cable, a separate audio cable is required. If your product has a headphone jack, make sure there is nothing plugged into it. Reboot the connected device by disconnecting, and then reconnecting device's power cable.
The speakers are making an inappropriate noise.	Check cable connections. Make sure a video cable is not connected to an audio input. For aerial or cable connections, check the signal information. A low signal level may cause sound distortion. Perform the Sound Test feature. (Menu → Support → Self Diagnosis → Sound Test)
Others	
Purple/green rolling horizontal bars and buzzing noise from the product speakers with a Component cable connection.	Remove the left and right audio connections from the Set-Top box. If the buzzing stops, this indicates that the Set-Top box has a grounding issue. Replace the Component video cables with an HDMI connection.
The picture won't display in full screen.	Black bars will appear on the top and bottom of the screen when you watch movies that have aspect ratios different from your product. Adjust the picture size options on your external device or the product to full screen.
A Mode Not Supported message appears.	Check the supported resolution of the product, and adjust the external device's output resolution accordingly. Refer to the resolution settings of this manual.
There is a plastic smell from the product.	This smell is normal and will dissipate over time.
The product is tilted to the side.	Remove the base stand from the product and reassemble it.
Your settings are lost after 30 minutes or every time the product is turned off.	If the product is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Change the settings from Store Demo mode to Home Use mode using the Use Mode procedure.
You see small particles when you look closely at the edge of the frame of the product.	This is part of the product's design and is not a defect.
The PIP menu is not available.	PIP functionality is available when you are using an PC, AV, Component, HDMI1/DVI, or HDMI2 source.
POP (product's internal banner ad) appears on the screen.	Select Home Use under Use Mode. For details, refer to the Use Mode Feature. ✎ Watch these troubleshooting on video at www.samsung.com ✎ Some functions and pictures shown in this manual are available on specific models only. ✎ To keep your product in optimum condition, upgrade to the latest firmware on the Samsung web site by USB (samsung.com → Support → Downloads).

Other Information

Issues	Solutions and Explanations
The product won't turn on.	Make sure the AC power cord is securely plugged in to the wall outlet and the product. Make sure the wall outlet is working. Try pressing the ⏻ button on the product to make sure the problem is not the remote. If the product turns on, refer to "Remote control does not work" below.
There is no picture/video.	Check the cable connections. Remove and reconnect all cables connected to the product and external devices. Set the video outputs of your external devices (Cable/Sat Box, DVD, Blu-ray etc) to match the product's input connections. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the product. Make sure your connected devices are powered on. Be sure to select the correct input source. Reboot the connected device by unplugging it, and then reconnecting the device's power cable.
The remote control does not work.	Replace the remote control batteries. Make sure the batteries are installed with their poles (+/–) in the correct direction. Clean the sensor's transmission window on the remote. Try pointing the remote directly at the product from 5~6 feet away.
The Cable/set top box remote control doesn't turn the product on or off, or adjust the volume.	Programme the Cable/Set remote control to operate the product. Refer to the Set-Top-Box user manual for the SAMSUNG product code.
Anynet+ (HDMI-CEC)	
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. You can connect only one receiver (home theatre). Check if the Anynet+ device power cord is properly connected. Check the Anynet+ device's Video/Audio/HDMI cable connections.

Other Information

Issues	Solutions and Explanations
I want to start Anynet+.	Open the Tools menu using your remote and then select Anynet+ (HDMI-CEC). Then select a menu you want.
I want to exit Anynet+.	Select View PC in the Anynet+ menu. Go to Source screen using your remote and select a non-Anynet+ device.
The message Connecting to Anynet+ device ... appears on the screen.	You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. Use the remote control after the product has completed Anynet+ configuration or has finished switching to Anynet+.
The connected device is not displayed.	Check whether or not the device supports Anynet+ functions. Check whether or not the HDMI cable is properly connected. Check whether Anynet+ (HDMI-CEC) is set to On. (System → Anynet+ (HDMI-CEC)) Search Anynet+ devices again. Anynet+ requires an HDMI connection. Make sure the device is connected to your product with an HDMI cable. Some HDMI cables may not support Anynet+ functions. If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan.

✎ Some functions and pictures shown in this manual are available on specific models only.

✎ To keep your product in optimum condition, upgrade to the latest firmware on the Samsung web site by USB (samsung.com → Support → Downloads).

Other Information

Supported Subtitle and Media Play file formats

Subtitle

External

- MPEG-4 timed text (.ttxt)
- SAMI (.smi)
- SubRip (.srt)
- SubViewer (.sub)
- Micro DVD (.sub or .txt)
- SubStation Alpha (.ssa)
- Advanced SubStation Alpha (.ass)
- Powerdivx (.psb)

Internal

- **Xsub**

  Container: AVI
- **SubStation Alpha**

  Container: MKV
- **Advanced SubStation Alpha**

  Container: MKV
- **SubRip**

  Container: MKV
- **MPEG-4 Timed text**

  Container: MP4

Supported image resolutions

File Extension	Type	Resolution
*.jpg, *.jpeg	JPG	15360 x 8640
*.bmp	BMP	4096 x 4096
*.mpo	MPO	15360 x 8640

Other Information

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	The Seek (jump) function is not supported. Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported.
*.wav	wav	wav	
*.mid *.midi	midi	midi	type 0 and type 1

Video Codec

<table>
<tr><th>File Extension</th><th>Container</th><th>Video Codec</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bit rate (Mbps)</th><th>Audio Codec</th></tr>
<tr><td rowspan="11">*.avi
*.mkv
*.asf
*.wmv
*.mp4
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.mov
*.flv
*.vob
*.svi
*.divx</td><td rowspan="11">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>Divx 3.11 / 4 / 5 / 6</td><td rowspan="3">1920 x 1080</td><td rowspan="9">6~30</td><td rowspan="3">30</td><td rowspan="9">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
DD+
MPEG(MP3)
DTS (Core)
G.711(A-Law, µ-Law)</td></tr>
<tr><td>MPEG4 SP / ASP</td></tr>
<tr><td>H.264 BP / MP / HP</td></tr>
<tr><td>Motion JPEG</td><td>640 x 480</td><td>8</td></tr>
<tr><td>Window Media Video v9</td><td rowspan="3">1920 x 1080</td><td rowspan="3">30</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>*.webm</td><td>WebM</td><td>VP8</td><td>1920 x 1080</td><td>6~30</td><td>20</td><td>Vorbis</td></tr>
</table>

Other Information

Other Restriction

✎ Video content will not play, or not play correctly, if there is an error in the content or the container.

✎ Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.

✎ If the Index Table is in error, the Seek (Jump) function is not supported.

✎ The menu may take longer to appear if the video's bit rate exceeds 10Mbps.

✎ Some USB/digital camera devices may not be compatible with the player.

Video Decoders

- Supports up to H.264, Level 4.1 (does not support FMO/ASO/RS)
- VC1 AP L4 is not supported.
- GMC 2 is not supported.
- Frame speed:

  Below 1280x720: 60 frame max

  Above 1280x720: 30 frame max

Audio Decoders

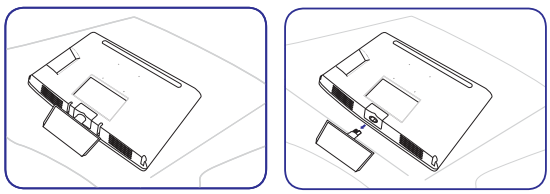
- WMA 10 Pro supports up to 5.1 channels. Supports up to M2 profile.
- WMA lossless audio is not supported.
- Vorbis is supported for up to 2 channels.
- DD+ is supported for up to 5.1 channels.

Other Information

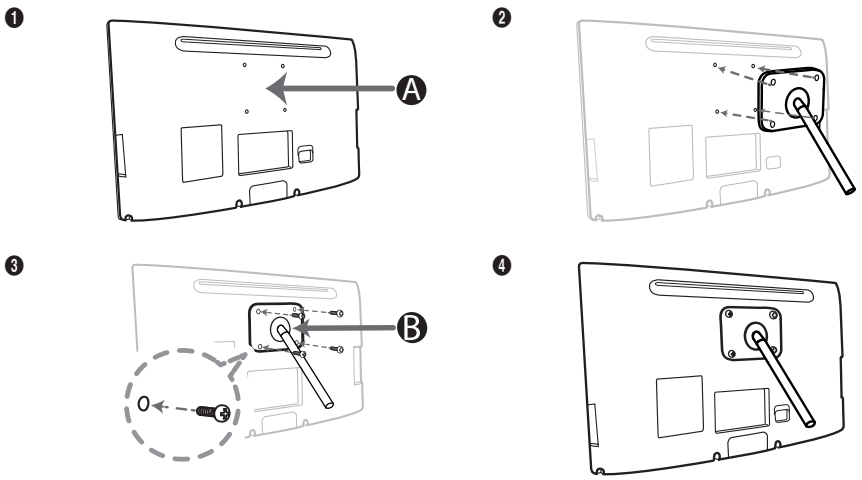
Attaching a Wall Mount/Desktop Stand

Preparing before installing Wall-Mount / Desktop Stand

1. Turn the product off and unplug the power cord from the wall outlet.
2. Place a soft cloth or cushion on a flat surface to protect the panel and place the product face down.
3. Hold the main body of the product with your hand. Pull the stand in the direction of the arrow as shown in the figure to separate it.



Attaching a Wall Mount / Desktop Stand

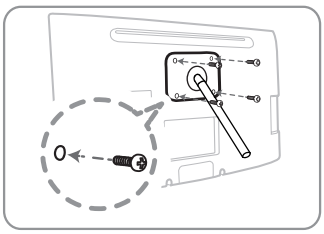


Ⓐ Wall/Desktop Stand Mount

Ⓑ Wall mount kit/desktop stand (not supplied)

Other Information

⚠ **Caution**



Important

For the installation of Wall-mount, please don't use screws longer than 10mm (L10) of longitude.

4. Align wall mount/desktop stand to the Monitor/LED display and firmly fix the wall mount/desktop stand by fastening the screw.
5. Align the groove of the part of the product that is to be connected to the stand with the groove in the stand (desktop stand, wall mount stand or another stand) and firmly fix the stand by fastening the screw.

Other Information

Installing the Wall Mount

Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the LED display on the wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. We do not advice you to do it yourself.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the LED display on your own.

Wall Mount Kit Specifications (VESA)

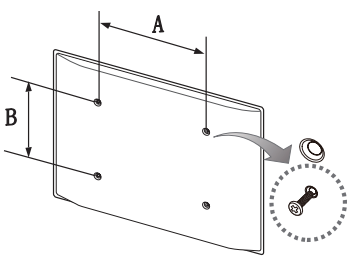
✎ The wall mount kit is not supplied, but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

✎ **NOTE**

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the LED display set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws that are too strongly; this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the LED display at more than a 15 degree tilt.

Product Family	inches	VESA Spec. (A * B)	Standard Screw	Quantity
MFM	23	75 X 75	M4	4



Do not install your Wall Mount Kit while your LED display is turned on. It may result in personal injury due to electric shock.

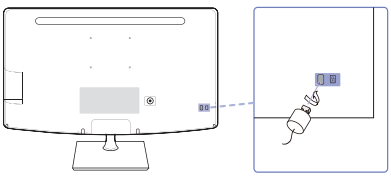
Other Information

Anti-theft Kensington Lock

A Kensington Lock is a device you can use to physically fix your product in place when using it in a public place.

You wrap the Kensington Lock's cable around a large, immobile object and then attach the lock to the Kensington slot on the back of the product.

The appearance and locking method may differ from the illustration below depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use. The Kensington Lock is not supplied by Samsung.



<Optional>

✎ Please find a "🔒" icon on the rear of the product. The Kensington slot is beside the "🔒" icon.

To lock the product, follow these steps:

1. Wrap the Kensington Lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington Lock cable.
3. Insert the locking device into the Kensington slot on the product.
4. Lock the lock.

✎ These are general instructions. For exact instructions, see the User manual supplied with the locking device.

✎ The locking device has to be purchased separately.

✎ The location of the Kensington slot may be different depending on the product model.

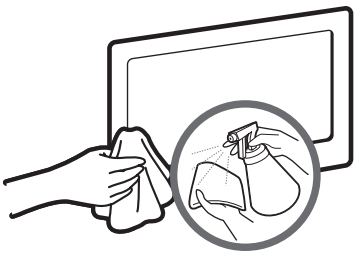
Other Information

Storage and Maintenance

If a sticker was attached to the product screen, some debris can remain after you remove the sticker. Please clean the debris off before watching product.

The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using the cloth provided or a soft cloth to prevent scratches.

Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.



Clean the product with a soft cloth dampened with a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

Other Information

Licence

Manufactured under licence from Dolby Laboratories.
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Other Information

Specifications

Environmental considerations	Operating	Temperature : 10°C~ 40°C Humidity : 10 % ~ 80 %, non-condensing
	Storage	Temperature : -20°C ~ 45°C Humidity : 5 % ~ 95 %, non-condensing
Tilt		-1° (±2.0°) ~20° (±2.0°)
Model Name		T23C350
Screen Size (Diagonal)		23 inches (58 cm)
Display Resolution		1920 x 1080 @ 60Hz
Sound (Output)		5W x 2
Dimensions (W x H x D)	With stand	546.0 x 427.3 x 190.0 mm
	Body	546.0 x 329.7 x 42.0 mm
Weight	With stand	3.9 kg
	Body	3.5 kg

✎ Design and specifications are subject to change without prior notice.

✎ For information about power supply, and more about power consumption, refer to the label attached to the product.

✎ Some models may not be available for purchase depending on the region.

✎ If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

✎ DPM(Display Power Management) Function does not work if you used in conjunction with the **HDMI IN 1 (DVI)** port of this product.

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